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(54) Title: SYSTEM AND METHOD OF AUTHENTICATING A KEY AND TRANSMITTING SECURE DATA

(57) Abstract

Authenticating a key of a user is provided by decrypting an encrypted data file provided by the user with a password provided by the user into the authentication key of the user. The encrypted data file can be stored on a RF smart card (106) and can contain encrypted biometric data identifying the user, such as a fingerprint. An additional measure can be used by taking a digitized biometric fingerprint scan (108) of the user and probabilistically comparing the digitized fingerprint scan of the user with the authenticated key of the user (102). The user's key can then be used to securely encrypt and transmit data (110) accordingly knowing that the key has been authenticated.